

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T S H E E T (pursuant to NAC 445A.236)

Permittee Name: Indian Hills General Improvement District
(IHGID)
924-D Mica Drive
Carson City, Douglas County, Nevada 89705

Permit Number: NEV80039

Permitted Unit: IHGID Wastewater Treatment Plant

Location: The Indian Hills General Improvement District's proposed new Austgen Biojet package plant is located adjacent to the existing plant at 1001 Hobo Hot Springs Road, in Indian Hills, Douglas County, Nevada approximately six miles south of Carson City. Section 24, Township 14N., Range 19E. MDB&M. Latitude: 39°03'30"N, Longitude: 119°47'43"W.

Description of Facility and Discharge:

The applicant is requesting a modification and renewal of the existing permit for the new plant. The upgrade to the wastewater treatment facility consists of a new headworks and a package wastewater treatment plant facility designed to treat 1.5 MGD of domestic sewage. The new plant is adjacent to the present facility's pond system, and will replace it. The IHGID wastewater utility serves the Indian Hills General Improvement District and adjacent service area which includes residential subdivisions, limited commercial, an RV Park and school. The present pond system has provided wastewater treatment to the service area since 1973.

The new package treatment plant is a Sequential Batch Reactor (SBR) (extended aeration) plant designed to provide advanced secondary denitrified, disinfected effluent. Limited irrigation of pasture grasses using treated effluent (reuse) is conducted on-site on a 4 acre area, and a second 14 acre site which will be added immediately north of the ponds. A fixed head spray irrigation system similar to the one used on the 4 acre site is planned. The Sunridge golf course, located east of Highway 395 and due east of the facilities, utilizes 0.5 MGD of treated effluent for landscape irrigation (reuse) supplied by IHGID. Sunridge Golf Course is permitted separately. Monitoring is required to determine any adverse effects on the groundwater.

Treated effluent storage is accommodated by: 0.5 MGD seasonal storage in the Sunridge golf course lakes, and 0.1 MGD in three of the old IHGID treatment ponds which have been converted for storage, and, the six original storage ponds.

Outfall 001=onsite effluent storage ponds
Outfall 002=onsite reuse irrigation
Outfall 003=Sunridge export line
Outfall 004=yard hydrants/construction water fill stand

Flow

The permitted 30-Day average flow has been set at 0.600 MGD, and a maximum design peak flow of 1.50 MGD.

Receiving Water Characteristics:

Depth to groundwater near the plant site is approximately 30 feet below ground surface and is potable.

Groundwater samples are collected and analyzed quarterly from two downgradient monitoring wells. The IHGID Utility's water supply wells are located miles from the plant site. There are no residences within one half mile of the plant.

Procedures for Public Comment:

The Notice of the Division's intent to modify and reissue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Record Courier** and the **Nevada Appeal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance

with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Effluent Limitations:

<u>PARAMETERS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING</u>
	<u>30-day Ave.</u>	<u>Daily Max</u>	<u>Measurement Frequency</u>
Influent FLOW:	0.600 MGD	1.5 MGD	Continuous
REUSE FLOW:			
Outfall 002	M & R	M & R	Continuous
Outfall 003	0.500 MGD	0.860 MGD	Continuous
Outfall 004	M & R	M & R	Calculate
BOD ₅ :			
Influent:	Monitor & Report	Monitor & Report	Weekly
Effluent:	30 mg/l	45 mg/l	weekly
TSS:			
Influent:	Monitor & Report	Monitor & Report	Weekly
Effluent:	30 mg/l	45 mg/l	Weekly
Effluent:			
Nitrate as N:	10 mg/l	M & R	Monthly
Total Nitrogen as N:	10 mg/l	M & R	Monthly
Total Kjeldahl Nitrogen:		Monitor & Report	Monthly
Ammonia as N:	M & R	M & R	Monthly
Total Nitrogen - N:	See Part I.A.1.b.		Yearly/4th Quarter
pH:	Between 6.0 and 9.0 SU		Monthly
Outfall 002			
Fecal Coliform:	Monitor & Report during irrigation season		Monthly
Outfall 004			
Fecal Coliform:	2.2/100 ml	23/100 ml*	Monthly

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* MPN or CFU

MGD = million gallons per day; ml = milliliters; mg/l = milligrams per liter; CFU = colony forming units; MPN = most probable number

Groundwater Monitoring MONITORING WELLS #1,2

| <u>PARAMETERS</u> | <u>Frequency</u> |
|--------------------------|--|
| TOTAL DISSOLVED SOLIDS: | Monitor and Report Quarterly |
| NITRATE as N: | See Part I.A.11. 10 mg/l Quarterly |
| TOTAL NITROGEN as N: | Monitor and Report Quarterly |
| CHLORIDE: | Monitor and Report Quarterly |
| GROUNDWATER ELEVATION: | Monitor and Report Quarterly |
| DEPTH TO GROUNDWATER: | Monitor and Report Quarterly |

Schedule of Compliance, Special conditions:

I.B.2. A revised Operations and Maintenance Manual (O & M) shall be submitted by December 30, 2000. It shall contain a **Sludge Management Plan, and a Groundwater Monitoring Plan.**

I.B.3. A revised **Effluent Management Plan** shall be submitted to the Division for review and approval within 90 days of permit issuance.

I.B.4. **A Certification** that the wastewater treatment facility has been constructed in accordance with the plans approved by NDEP shall be provided by a Nevada Registered Professional Engineer by September 30, 2000.

There are no special conditions.

Rationale For Permit Requirements

Effluent monitoring is required to assess the level of treatment being provided and to determine when design capacity is being approached.

Groundwater monitoring is required to ensure that operations of the facility do not degrade groundwaters of the State.

Proposed Determination

The Division has made the tentative determination to reissue the proposed permit for a five (5) year period.

Prepared by: Icyl C. Mulligan
July 2000